

CS 482 Summer 2003
Course Information

Tom Wexler
wexler@cs.cornell.edu
office: Upson 4104
tel: 5-9537

Alexa Sharp
asharp@cs.cornell.edu
office: Upson 5157
tel: 5-9834

Reaching Us

The best way to reach the instructors is by coming to our office hours or sending us email. We will try to respond to questions as soon as possible - hopefully within one working day. If we judge that the question might have been better directed to the other instructor, the question may be forwarded there unless an explicit request is included to the contrary.

You will notice we don't have any TA's or graders... so you're stuck with us! A-bwah-hahahaha.

Office Hours

We will have regular office hours during the day and evenings, but we haven't decided on them yet. Try to get your assignments started early so that if you have any trouble you can make it to someone's office hour in time. We are going to try not to be conned in to last-minute office hours.

Due to Upson being locked after 5pm, we have booked the room HO 314 from 6:30pm - 9:30pm every weeknight during the course (so, July 7th - August 18th) for evening office hours, study/review sessions, or any other evening activities we may have. If you're in doubt as to where to find us for a planned evening session, that's where we'll be. If there's nothing planned, we probably won't be there. I mean, it's not our style to hang out in empty classrooms.

Lectures

Monday to Friday, 8:30-9:45, Hollister Hall 368

Course Materials

The official textbook for the course is a draft of a book by Jon Kleinberg and Eva Tardos, which you can get at the Campus Store. If the Campus Store has run out of books, you can call them and ask for an additional copy to be printed. This usually takes one or two days.

The authors developed the book while teaching CS 482 in the past few years, so it is organized around the structure of the course. However, it is not a substitute for coming to class, as we will cover material not in the book, and the book contains some material that is not required. Note that some reading assignments will be given from the book on topics not covered in class.

There are also some useful textbooks on reserve in the Engineering library, such as

- T. Cormen, C. Leiserson, R. Rivest. Introduction to Algorithms.
- A. Aho, J. Hopcroft, J. Ullman. The Design and Analysis of Computer Algorithms.
- G. Brassard, P. Bratley. Fundamentals of Algorithmics.
- M. Garey and D. Johnson. Computers and Intractability.
- D. Kozen. The Design and Analysis of Algorithms.

Course Requirements

Students are responsible for all material in the assigned readings, as well as material covered in lectures. There will be nine(ish) assignments, two in-class preliminary exams, one final exam, and pop quizzes that we may or may not tell you about. The assignments will be written exercises. Exams will cover material presented in class and will require you to do some heavy thinking on your feet. The pop quizzes will test you on what you learned in the last day or so. Your final grade is determined roughly as follows:

Assignments	Due Date	Subject		% Grade
Assignment 1	July 11	Matchings & Graphs		40 %
Assignment 2	July 14	Greedy & MSTs		
Assignment 3	July 17	Divide & Conquer		
Assignment 4	July 21	Dynamic Programming		
Assignment 5	July 28	Network Flows I		
Assignment 6	July 31	Network Flows II		
Assignment 7	August 5	NP Completeness		
Assignment 8	August 14	Special Cases & Approx. Algorithms		
Assignment 9	August 15	Probabilistic & Online Algorithms		
Exams	Date	Time	Place	% Grade
Prelim I	July	in class	HO 368	15 %
Prelim II	August	in class	HO 368	15 %
Final	August 18	TBA	TBA	25 %

The above table is, naturally, subject to change. And yes, we can add. Usually. The remaining 5% are up to the instructors' discretion, and will probably be based on class participation, attendance and quizzes.

No late assignments will be accepted. Period. This is because we will often try to grade the assignments the same day they are due and return them immediately. They will be due at the beginning of lecture on the due date. This is partly to make you show up to class. And I know everyone always says this, but really, you should try to get started on your assignments (especially these ones) early.

If for some reason (such as severe life-threatening illness) you are unable to complete an assignment or take a test, please talk to one of the instructors as soon as possible. We will handle them on a case-by-case basis.

Joint Work

In general, it is OK to talk with other students about the assignments, but you have to be very careful about how much you collaborate. A good rule of thumb is that you may talk to each other so long as no one writes or types anything down. And when you work in a group, you must list on your assignment who you worked with. Please do not hand in work done with (or by) someone else under your own name. The penalties for cheating at Cornell are severe, and include expulsion; see the CS Department's Code of Academic Integrity. Please don't break the rules. Not only is it bad, but it's disrespectful to us as instructors. If you are unsure about anything, please ask.